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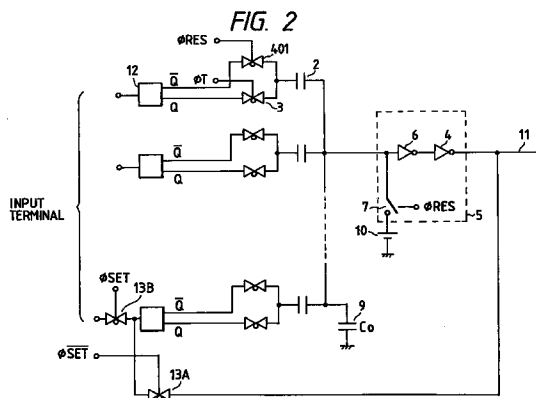
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(54) **Semiconductor device and operating device, signal converter, and signal processing system using the semiconductor device**

(57) In a semiconductor device in which one terminal of each of capacitor (2) is connected to a corresponding one of multiple input terminals via switch (3), and the remaining terminals of the capacitor (2) are commonly connected to a sense amplifier (5), the output from the sense amplifier (5) is connected to at least one of the multiple input terminals, thereby reducing the circuit scale, improving the operation speed, and saving the consumption power.



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	FR 2 536 922 A (EFCIS) 1 June 1984	1-5	G06F7/00
Y	* the whole document *	7	G06F7/02
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A	DE 44 02 952 A (SANDER TOBIAS) 23 June 1994	6	H03M1/40
	* figure 1 *		H03M1/80
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A	EP 0 569 856 A (YOZAN INC) 18 November 1993	6	G06J1/00
	* figure 1 *		H03M1/42

Y	FR 2 599 526 A (CENTRE NAT RECH SCIENT) 4 December 1987	7	
	* figures 1-4 *		

			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G06F H03M G06T
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		23 May 1997	Beindorff, W
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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